ELSEVIER

General Subjects

Vol. 1290, 1996

BBA Biochimica et Biophysica Acta

Cumulative contents

Information for Contributors *vii*

Short sequence-paper

Cloning and sequencing of trehalose synthase gene from *Pimelobacter* sp. R48
K. Tsusaki, T. Nishimoto, T. Nakada, M. Kubota, H. Chaen, T. Sugimoto and M. Kurimoto (Japan) 1

Regular papers

The sarcoplasmic reticulum calcium pump is functionally altered in dystrophic muscle
M.E. Kargacin and G.J. Kargacin (Canada) 4

Fluorescence emission properties of 8-azapurines and their nucleosides, and application to the kinetics of the reverse synthetic reaction of purine nucleoside phosphorylase
J. Wierzchowski, B. Wielgus-Kutrowska and D. Shugar (Poland) 9

Proteoglycans and glycosaminoglycans synthesized in vitro by mesangial cells from normal and diabetic rats
S.J. Hadad, Y.M. Michelacci and N. Schor (Brazil) 18

Cathepsin B activity in normal human osteoblast-like cells and human osteoblastic osteosarcoma cells (MG-63): regulation by interleukin-1β and parathyroid hormone
M.C. Aisa, S. Rahman, U. Senin, D. Maggio and R.G.G. Russell (UK, Italy) 29

Purification and characterization of virus-like particles and pentamers produced by the expression of SV40 capsid proteins in insect cells
A. Kosukegawa, F. Arisaka, M. Takayama, H. Yajima, A. Kaidow and H. Handa (Japan) 37

Hydrogen peroxide increases Na^+/K^+-ATPase function in alveolar type II cells
B. González-Flecha, P. Evelson, K. Ridge and J.I. Sznajder (USA, Argentina) 46

Evidence for a glycosylinositolphospholipid-anchored alkaline phosphatase in the aquatic plant *Spirodela oligorrhiza*
N. Morita, H. Nakazato, H. Okuyama, Y. Kim and G.A. Thompson Jr. (Japan, USA) 53

Minimum structural requirement for an inhalational anesthetic binding site on a protein target
J.S. Johansson and R.G. Eckenhoff (USA) 63

Molecular characterization of *Euglena* ascorbate peroxidase using monoclonal antibody
T. Ishikawa, T. Takeda, H. Kohno and S. Shigeoka (Japan) 69

Dipeptide-derived diphenyl phosphonate esters: mechanism-based inhibitors of dipeptidyl peptidase IV
A.-M. Lambeir, M. Borloo, I. De Meester, A. Belyaev, K. Augustyns, D. Hendriks, S. Scharpé and A. Haemers (Belgium) 76

Strength and lifetime of the bond between actin and skeletal muscle α-actinin studied with an optical trapping technique
H. Miyata, R. Yasuda and K. Kinosita Jr. (Japan) 83

Regulation of folate-dependent enzyme levels in *Aspergillus nidulans*: studies with regulatory mutants
I. Lewandowska, M. Balińska, R. Natorff and A. Paszewski (Poland) 89

Characterisation of an acid trehalase of *Saccharomyces cerevisiae* present in trehalase–sucrase aggregate
N. Biswas and A.K. Ghosh (India) 95

Differential expression and secretion of gelatinases and tissue inhibitor of metalloproteinase-1 during neutrophil adhesion
P. Zaoui, C. Barro and F. Morel (France) 101

Induction of heme oxygenase-1 in LMH cells. Comparison of LMH cells to primary cultures of chick embryo liver cells
K.K. Gabis, O.S. Gildemeister, J.A. Pepe, R.W. Lambrecht and H.L. Bonkovsky (USA) 113

Specific ADP-ribose pyrophosphatase from *Artemia* cysts and rat liver: effects of nitroprusside, fluoride and ionic strength
A. Fernández, J.M. Ribeiro, M.J. Costas, R.M. Pinto, J. Canales and J.C. Cameselle (Spain) 121

Information for Contributors *v*

Regular papers

Purification and identification of allergenic α_{2u}-globulin species of rat urine
C. Bayard, L. Holmquist and O. Vesterberg (Sweden) 129

Purification and characterization of *Artemia* 2′,3′-cyclic nucleotide 3′-phosphodiesterase
A.R. Díaz and C.F. Heredia (Spain) 135

Hyperosmotic exposure alters total taurine quantity and cellular transport in rat astrocyte cultures
J.W. Beetsch and J.E. Olson (USA) 141

Dipeptidyl peptidase II from porcine seminal plasma: purification, characterization, and its homology to granzymes, cytotoxic cell proteinases (CCP 1–4)
K. Huang, M. Takagaki, K. Kani and I. Ohkubo (Japan) 149

Retinol-binding protein secretion from the liver of *N*-(4-hydroxyphenyl)retinamide-treated rats
S.J. Ritter and J.E. Smith (USA) 157

Magnesium activated adenosine formation in intact perfused heart: predominance of *ecto* 5′-nucleotidase during hypermagnesemia
R.T. Mallet, J. Sun, W.-L. Fan, Y.-H. Kang and R. Bünger (USA, South Korea) 165

Purification and properties of L(−)-carnitine dehydrogenase from *Agrobacterium* sp.
H. Hanschmann, R. Ehricht and H.-P. Kleber (Germany) 177

Purification and characterisation of swine serum proteinase which hydrolyses epidermal inhibitory pentapeptide
M. Bramucci, A. Miano, L. Quassinti, E. Maccari, S. Canofeni and D. Amici (Italy) 184

In vitro inhibition of Ca^{2+}/calmodulin-dependent kinase II activity by melatonin
G. Benítez-King, A. Ríos, A. Martínez and F. Antón-Tay (Mexico) 191

Stimulation of rat liver AMP-activated protein kinase by AMP analogues
N. Henin, M.F. Vincent and G. Van den Berghe (Belgium) 197

Erratum

Erratum to 'In vivo ^{19}F-NMR spectroscopic study of halothane uptake in rabbit brain' [Biochim. Biophys. Acta 1245 (1995) 262–268]
P.N. Venkatasubramanian, Y.-J. Shen and A.M. Wyrwicz (USA) 205

Information for Contributors *v*

Rapid report

Dielectric monitoring of rouleaux formation in human whole blood: a feasibility study
A. Irimajiri, M. Ando, R. Matsuoka, T. Ichinowatari and S. Takeuchi (Japan) 207

Regular papers

Cloning and functional analysis of the *pmmA* gene encoding phosphomannomutase from the photosynthetic prokaryote *Prochlorothrix hollandica*
K. Dwivedi, A.F. Post and S. Bullerjahn (USA, Israel) 210

Wheat germ agglutinin-reactive chains of giant hemoglobin from the polychaete *Perinereis aibuhitensis*
K. Matsubara, M. Yamaki, K. Nagayama, K. Imai, H. Ishii, T. Gotoh and S. Ebina (Japan) 215

Facile oxidative decarboxylation of 3,4-dihydroxyphenylacetic acid catalyzed by copper and manganese ions
I.N. Mefford, L. Kincl, K.H. Dykstra, J.T. Simpson, S.P. Markey, S. Dietz and R.M. Wightman (USA) 224

Binding of myeloperoxidase to bacteria: effect on hydroxyl radical formation and susceptibility to oxidant-mediated killing
B.E. Britigan, H.R. Ratcliffe, G.R. Buettner and G.M. Rosen (USA) 231

Identity of zinc ion-dependent acid phosphatase from bovine brain and *myo*-inositol 1-phosphatase
A. Caselli, P. Cirri, S. Bonifacio, G. Manao, G. Camici, G. Cappugi, G. Moneti and G. Ramponi (Italia) 241

Distribution and quantification of pyridinium cross-links of collagen within the different maturational zones of the chick growth plate
C. Farquharson, A. Duncan, E. Seawright, C.C. Whitehead and S.P. Robins (UK) 250

Nitric oxide enhances cytotoxicity of cultured rabbit gastric mucosal cells induced by hydrogen peroxide
Y. Hata, S. Ota, H. Hiraishi, A. Terano and K.J. Ivey (USA, Japan) 257

Effect of pH and acyl-CoA Chain length on the conversion of heart mitochondrial CPT-I/CPT_o to a high affinity, malonyl-CoA-inhibited state
L.L. Bieber and M. Wagner (USA) 261

Control of thymidine kinase during liver regeneration after partial hepatectomy
I. Tsukamoto, M. Wakabayashi, K. Takebayashi and S. Nomura (Japan) 267

Characteristic properties of a retinoic acid synthetic cytochrome *P*-450 purified from liver microsomes of 3-methylcholanthrene-induced rats
S. Tomita, E. Okuyama, T. Ohnishi and Y. Ichikawa (Japan) 273

Ability of ubiquitin radioimmunoassay to discriminate between monoubiquitin and multi-ubiquitin chains
K. Takada, N. Hibi, Y. Tsukada, T. Shibasaki and K. Ohkawa (Japan) 282

Effects of ions on partitioning of serum albumin and lysozyme in aqueous two-phase systems containing ethylene oxide/propylene oxide co-polymers
H.-O. Johansson, G. Lundh, G. Karlström and F. Tjerneld (Sweden) 289

Inhibition of human leukocyte elastase activity by heparins: influence of charge density
N. Volpi (Italy) 299

A characterization of pervanadate, an inducer of cellular tyrosine phosphorylation and inhibitor of gap junctional intercellular communication
S.-O. Mikalsen and O. Kaalhus (Norway) 308

Lipofuscin-like pigments by autoxidation of polyunsaturated fatty acids in the presence of amine neurotransmitters: the role of malondialdehyde
M. D'Ischia, C. Costantini and G. Prota (Italy) 319

Novel metabolic pathways for linoleic and arachidonic acid metabolism
M.F. Moghaddam, K. Motoba, B. Borhan, F. Pinot and B.D. Hammock (USA, Japan) 327

Cumulative contents, Vol. 1290 341

Author index 344